WELCOME!

CASCADIA
RISING

Cascadia Subduction Zone (CSZ)
Catastrophic Earthquake and Tsunami Functional Exercise 2016

Communications Academy

April 9, 2016

Mike Chaplin NC7Q Co-Lead CR-16 Operational Communications
Monte Simpson AF7PQ Co-Lead CR-16 Operational Communications

CASCADIA
RISING

Cascadia Subduction Zone (CSZ) Catastrophic Earthquake and Tsunami Functional Exercise 2016

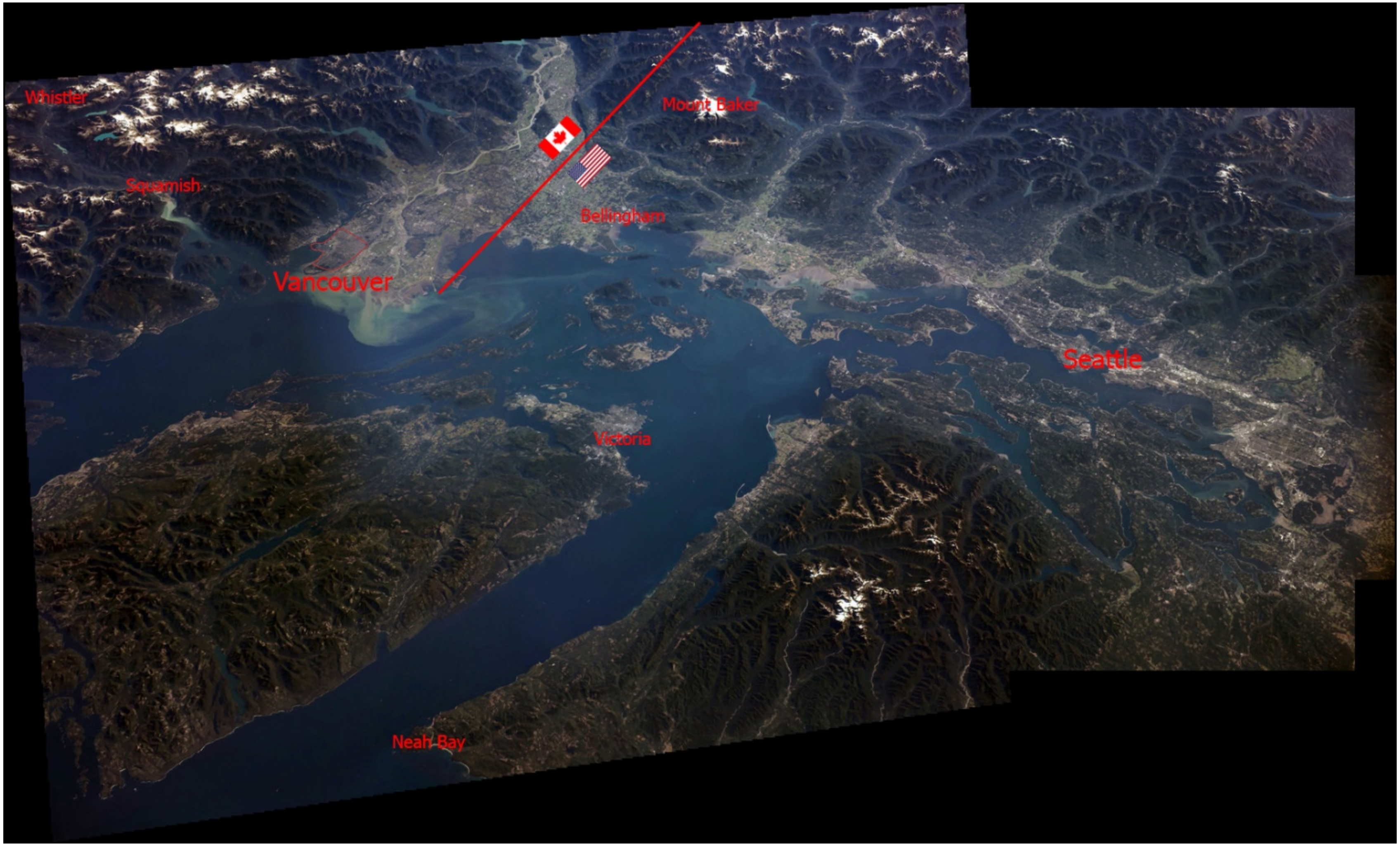
The Earthquake and Tsunami Exercise

- Based on a 9.0 magnitude earthquake along the length of the Cascadia Subduction Zone fault.
- The epicenter is 95 miles west of Eugene, Oregon which triggers a tsunami which effects the entire West Coast but also the entire Pacific Basin.
- Loss estimation does not provide definitive results but are couched in probabilities of infrastructure experiencing a set of specified damage states. The Cascadia Rising exercise relies upon the 90% percentile damage – the damage state with only a 10% estimated chance of being exceeded. Percentage of damage for each damage state are as follows: Low <5% damaged; Medium 5-50% damaged; High 51-100% damaged.

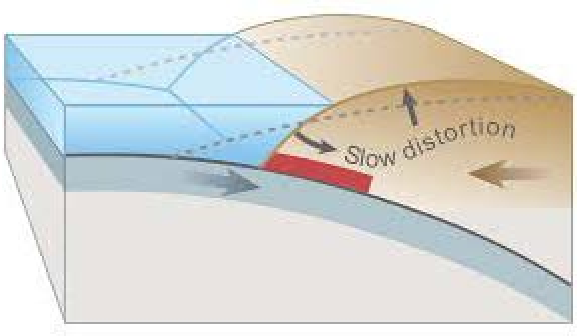
The Cascadia Megacity

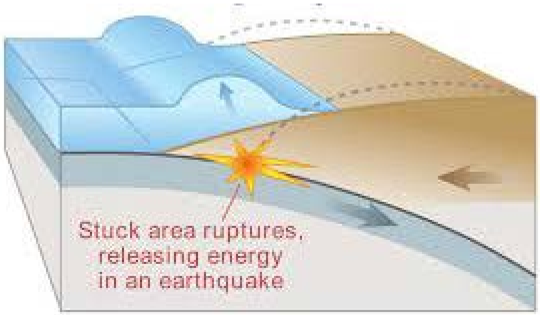
- 8 Million people live and work on the projected CSZ earthquake damage zone – 6 million of these in urban areas.
- The Seattle and Portland Metro areas along represent the sixth largest metro area by GDP at nearly $450 billion annually.
- Vancouver, B.C. is the third largest city in Canada by nominal GDP at just over $100 billion annually.
- The Pacific Northwest is one of the preeminent tourist destinations for both domestic and international travelers.
- The Blaine, WA border crossing is the 8th busiest in the US with just shy of 7 million personal vehicles annually.

The Cascadia Megacity



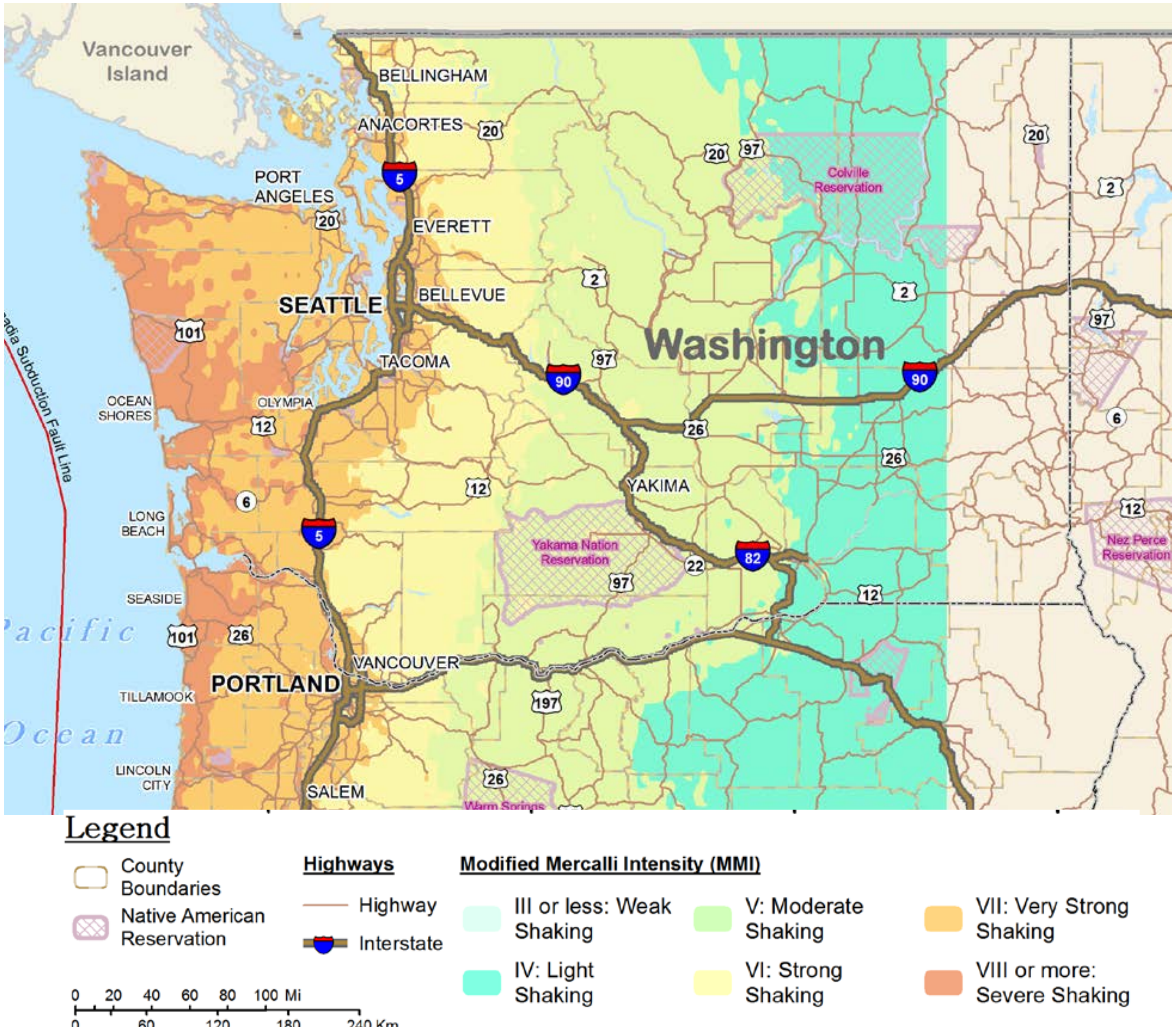
Anatomy of a Cascadia Zone Earthquake



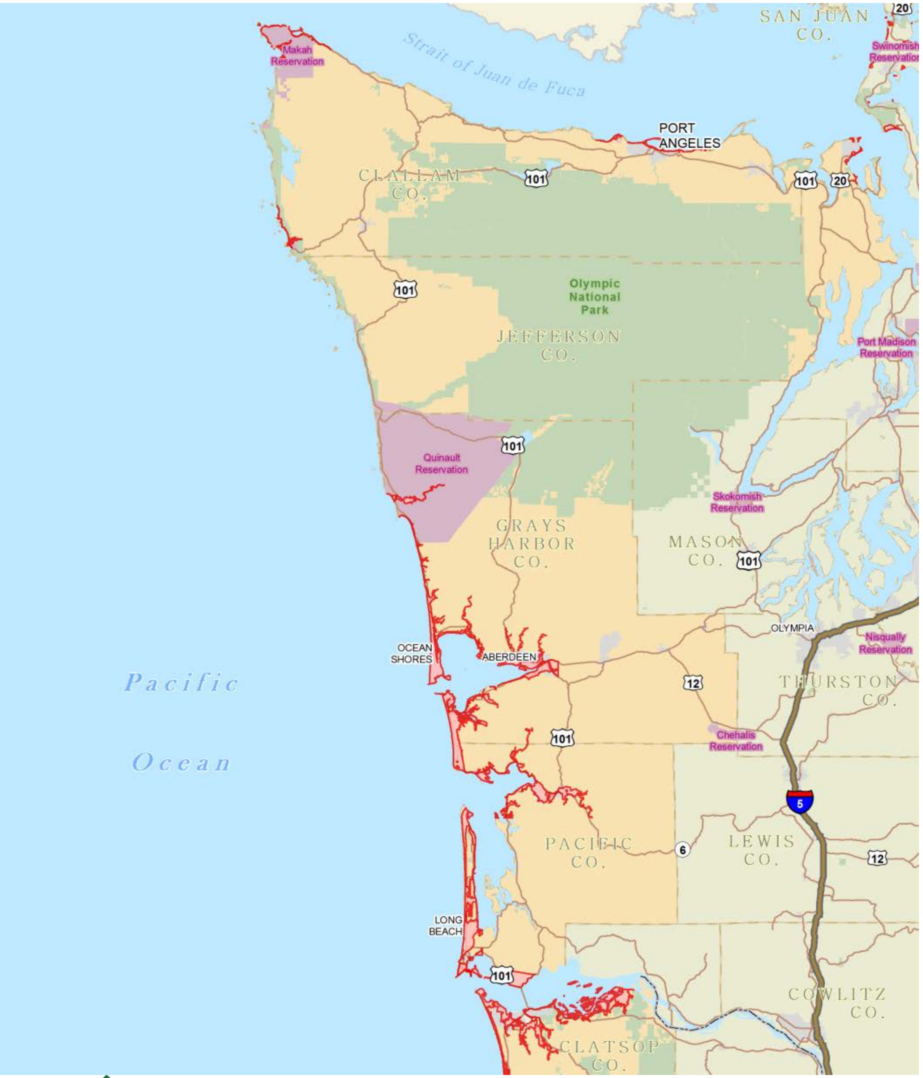


- The subducting tectonic plate (solid grey) currently stuck against the over-riding North American Plate (brown) causing the edge of the North American plate to warp and elevate the land.
- When the pressure finally causes the fault to rupture, the North American Plate will flex and drop, **producing a major earthquake and tsunami.**
- The dotted lines in the left image mark the level of the land not warped by accumulated strain and on the right mark the elevation of the distorted plate just before fault rupture.

SHAKING INTENSITY



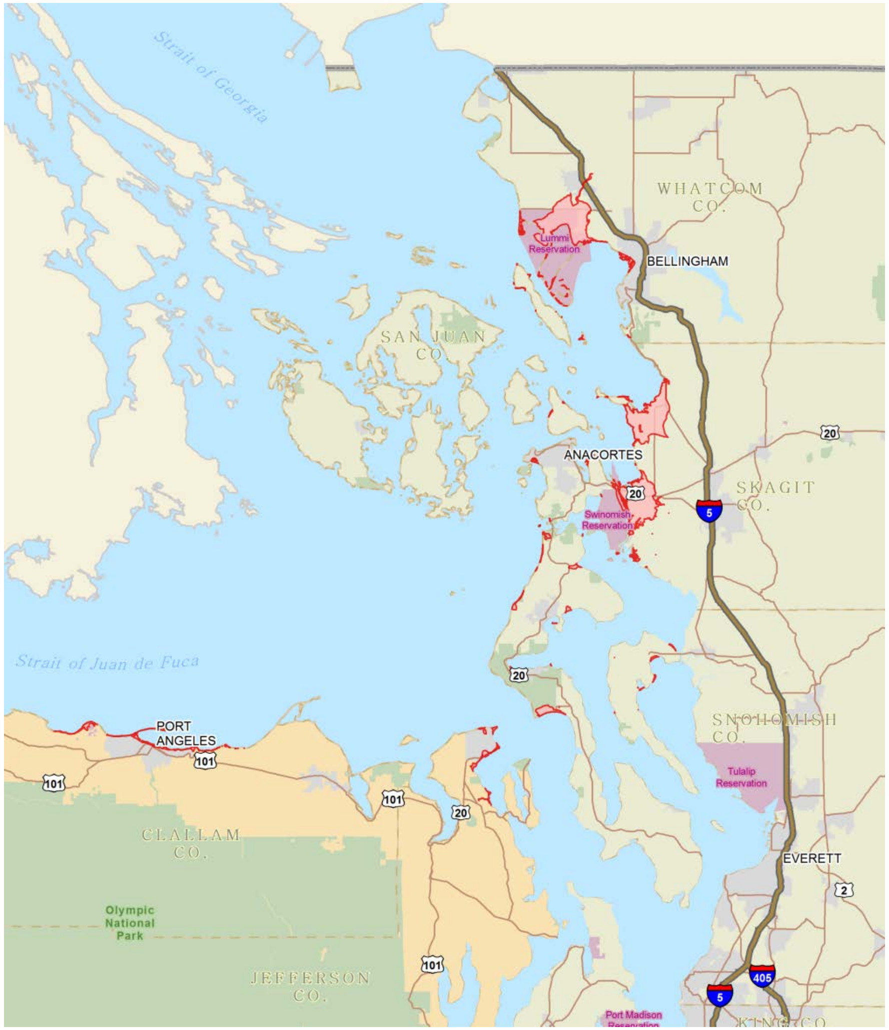
Tsunami Inundation Zone – Pacific Coast WA



The cities of Aberdeen, Ocean Shores, Westport, Long Beach, Hoquiam, Cosmopolis, and Shoalwater Bay Indian Reservation will be devastated.

Over 50,000 Washingtonians reside in the tsunami inundation zone. After the initial shaking survivors will have 30-60 minutes before the first wave. During certain times as many as 25,000 workers and 17,000 tourists may also be in the inundation zone.

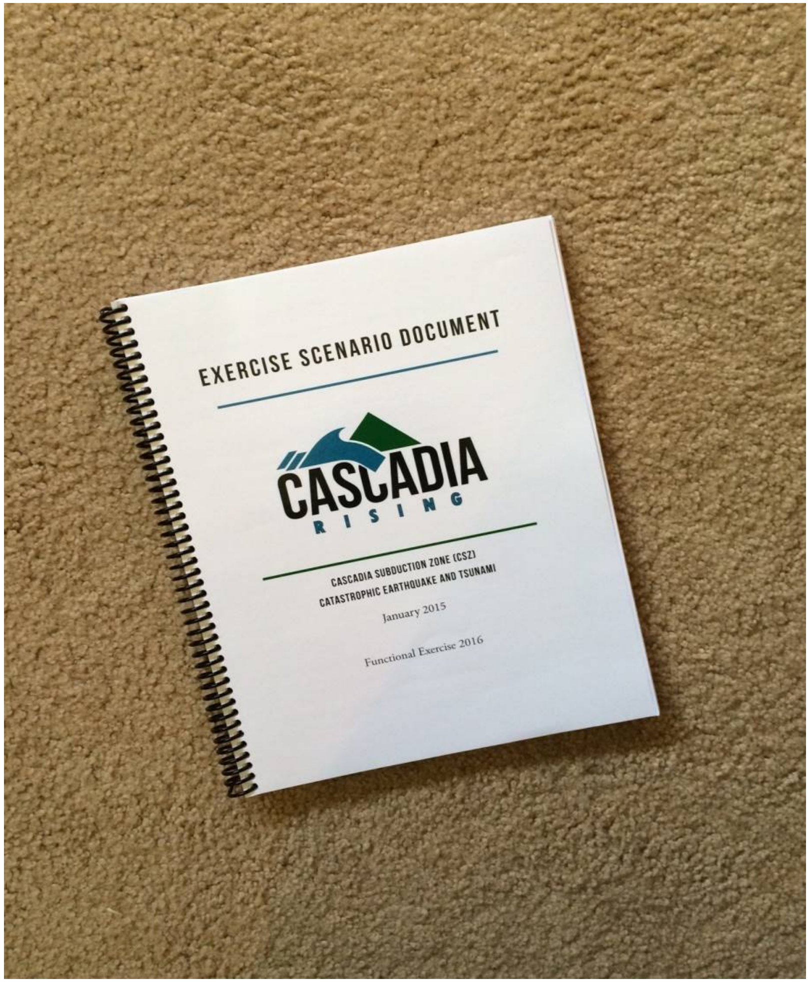
Tsunami Inundation – Coastal Puget Sound.



The tsunami inundation zone in Washington also includes the coasts of the Strait of Juan de Fuca and on the coasts of counties in upper Puget Sound.

Cascadia Rising Exercise Scenario Document

https://huxley.wwu.edu/sites/huxley.wwu.edu/files/Cascadia_Rising_high_0.pdf



EXERCISE SCENARIO DOCUMENT

CASCADIA RISING

CASCADIA SUBDUCTION ZONE (CSZ)
CATASTROPHIC EARTHQUAKE AND TSUNAMI

January 2015

Functional Exercise 2016

CR-16 Communications Play - Background

The Scenario for the Cascadia Rising 2016 (CR-16) Exercise paints a rather dismal picture of the state of the telecommunications infrastructure following the Cascadia Subduction Zone (CSZ) earthquake. Per the scenario document and the latest modeling, up to 76% of the communications facilities along the broad I-5 corridor in Washington and Oregon may suffer medium to high damages; the figure is close to 100% along the coasts.

CR-16 Communications Play - Background

In a real-world CSZ earthquake, the ability of Emergency Operating Centers (EOCs) to communicate with field responders, other EOCs, and the media/public via cellular and landline telephone, e-mail, and the internet will be rather limited. For many EOCs, communications via satellite and HF/UHF radio (ARES/RACES) may be the predominant means of sharing information in the days following the earthquake.

Operational Communications Overarching Objective

“To demonstrate the ability of Emergency Operations Centers (EOCs) to establish and sustain voice and data communications with other EOCs and with the general public to include basic restoration of communications infrastructure within the impacted area to support response operations and coordinated public messaging”.

EXERCISE SCENERIO SCOPE

- Cascadia Rising is designed to mimic, to the greatest extent possible, the challenges, issues, and stressors of a Level-1 catastrophic earthquake disaster.
- This will be achieved through the participation of EOCs at all levels – city, county, state, tribal, federal government, select private sector and non-governmental organizations.
- Each EOC will fully activate and staff their respective operations to manage disaster response within their respective jurisdiction while simultaneously coordinating with other EOCs and departments/agencies and (simulated) first responders to meet exercise objectives.

EXERCISE SCENERIO SCOPE

- In the early morning hours (PDT) on June 7, 2016, a 9.0 magnitude earthquake and complete rupture of the 700-mile Cascadia Subduction Zone fault line occurs.
- The duration of the earthquake lasts over four minutes.
- The affected area encompasses 140,000 square miles directly impacting the states of Oregon and Washington and the Canadian province of British Columbia.
- Over 10 million people reside in the direct impact zone. The event causes widespread damage to critical infrastructures and the built environment and kills and injures thousands.

CR-16 DEFINITIONS

CR-16 Communications Play - Definitions

- ***Communications outage*** – all traditional communications systems that EOCs routinely rely upon – i.e., the internet to include e-mail, and landline and cell-phone service is ‘taken out’ during exercise play (the assumption is that HF/UHF radio systems will still be functional).

CR-16 Communications Play - Definitions

- ***Communications degradation*** – One or more forms of traditional communications systems are taken out, but leaving others functioning – i.e., taking out the internet/email, but letting players continue to use cell phones (again, the assumption is that HF/UHF radio systems will still be functional).

WHAT WE WILL COVER IN THIS PRESENTATION

FEMA GUIDELINES FOR CR-16 PLAY

FEMA Guidelines for CR-16 Communications Play

- While ‘taking-out’ communications in the EOC is necessary in the exercise to mimic reality, such action must be balanced against achieving the wider exercise objectives. Since all EOCs participating in the exercise are only playing for a limited amount of days and time, CR-16 must strive to optimize the player experience in each EOC. Excessive communications outage play during the exercise risks greatly reducing EOC player engagement during our limited exercise play time.

FEMA Guidelines for CR-16 Communications Play

- FEMA requests that each EOC participating in the CR-16 Exercise consider building into your exercise design a minimum of 1-hour and no more than 3-hours of communications outage or degradation per day for each day of play. Identifying and working through operational communications issues is a critical element to the exercise, so where possible, EOCs should employ emergency tactical communications equipment and methods to bridge the loss of traditional communications systems in order to maintain the EOC mission.

FEMA Guidelines for CR-16 Communications Play

- **The job of announcing the communications outage or degradation should fall to the EOC Controller on the EOC shop floor.**
- **When directed to do so by the Lead Controller in the Control Cell, the EOC Controller should make an announcement to all EOC players that certain communications systems/devices are no longer working and are no longer in play.**
- **The EOC Controller should ask all players to turn-off their computers (if simulating an internet/email outage) and/or turn-off their cell phones (if simulating non-functional cell-towers).**
- **The EOC Controller will then need to roam the EOC to ensure no player is cheating.**
- **Once directed by the Lead Controller in the Control Cell that the communications outage has passed, the EOC Controller will need to announce that communications are back on-line and operational. If so desired, organizations may "sever" or "un-plug" the EOC's internal network router interface to increase the effectiveness of the simulation.**

PARTICIPANT GUIDANCE – BEFORE THE EXERCISE

- If you are a participant in a participating county or municipality you should closely liaison with your local emergency management officials to determine how you and amateur radio will (who, when, how) participate during CR-16.
- Review appropriate Emergency Operations Plans (EOPs) and procedures for your community/agency EOC.
- Be at the appropriate EOC venue at least 30 minutes before the exercise starts to check-in, receive your identification badge (if applicable), and prepare for exercise play.
- Wear the appropriate uniform and identification item(s).
- Read all exercise materials, including exercise safety information.

PARTICIPANT GUIDANCE – DURING THE EXERCISE

- Respond to exercise events and information as if the disaster were real, unless otherwise directed by an exercise controller.
- Controllers will only give you information they are specifically directed to disseminate. Players are expected to obtain other necessary information through existing procedures or information channels.
- Do not engage in personal conversations with controllers, evaluators, observers, or media personnel. If you are asked an exercise-related question, provide a short, concise answer. If you are busy and cannot immediately respond, indicate that, but report back with an answer as soon as possible.
- If you do not understand the scope of the exercise, or if you are uncertain about an organization's or agency's participation in an exercise, ask a controller.
- Parts of the scenario may seem implausible. Recognize that the exercise has objectives to satisfy and may require the incorporation of artificial or unrealistic aspects. Every effort has been made by the exercise design team to balance realism to create an realistic exercise and effective learning environment.

PARTICIPANT GUIDANCE – DURING THE EXERCISE

- Due to Cascadia Rising 2016 being of limited duration and scope, certain details will be simulated. The physical description of what would occur at the incident sites and surrounding areas will be relayed to players by simulators or controllers. The Control Cell will simulate the roles and interactions of nonparticipating organizations or individuals.
- When taking any actions or making any critical decisions during exercise play, please verbalize them so that evaluators are aware of critical actions as they occur.
- Maintain a log of your activities. This log will help to document key activities that may have been missed by an evaluator.
- All communications (including written, radio, telephone, and e-mail) during the exercise must begin and end with the statement "This is an exercise."

PARTICIPANT GUIDANCE – AFTER THE EXERCISE

- Participate in relevant Cascadia Rising 2016 and/or component event hot washes.
- Complete the Participant Feedback Form. This form allows you to comment candidly on EOC actions during the exercise and exercise effectiveness. Provide the completed form to a controller or evaluator.
- If applicable, complete the on-line Participant Survey. This online survey allows you to comment candidly on emergency response activities and exercise effectiveness.
- Provide any notes or materials generated from the exercise to your controller or evaluator for review and inclusion in the After Action Report (AAR).

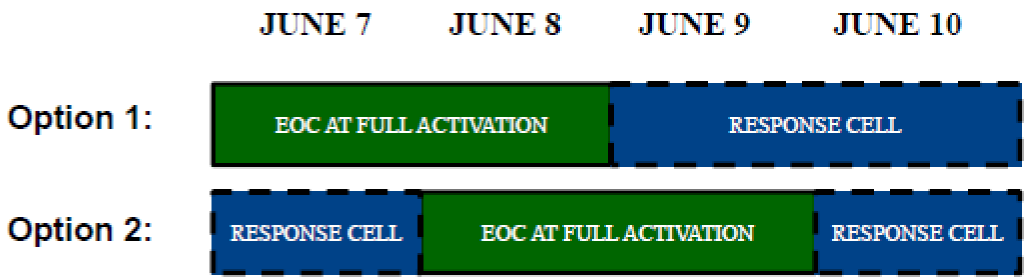
THE CR-16 PLAYERS

and

LEVEL OF PLAY

Timeline of Play

- Operational Period
  - Locals: 8 hours (0800-1600)
  - State/Feds: 12 hours (0800-2000)
- Duration of Play – 2 days, 3 days, or 4 days

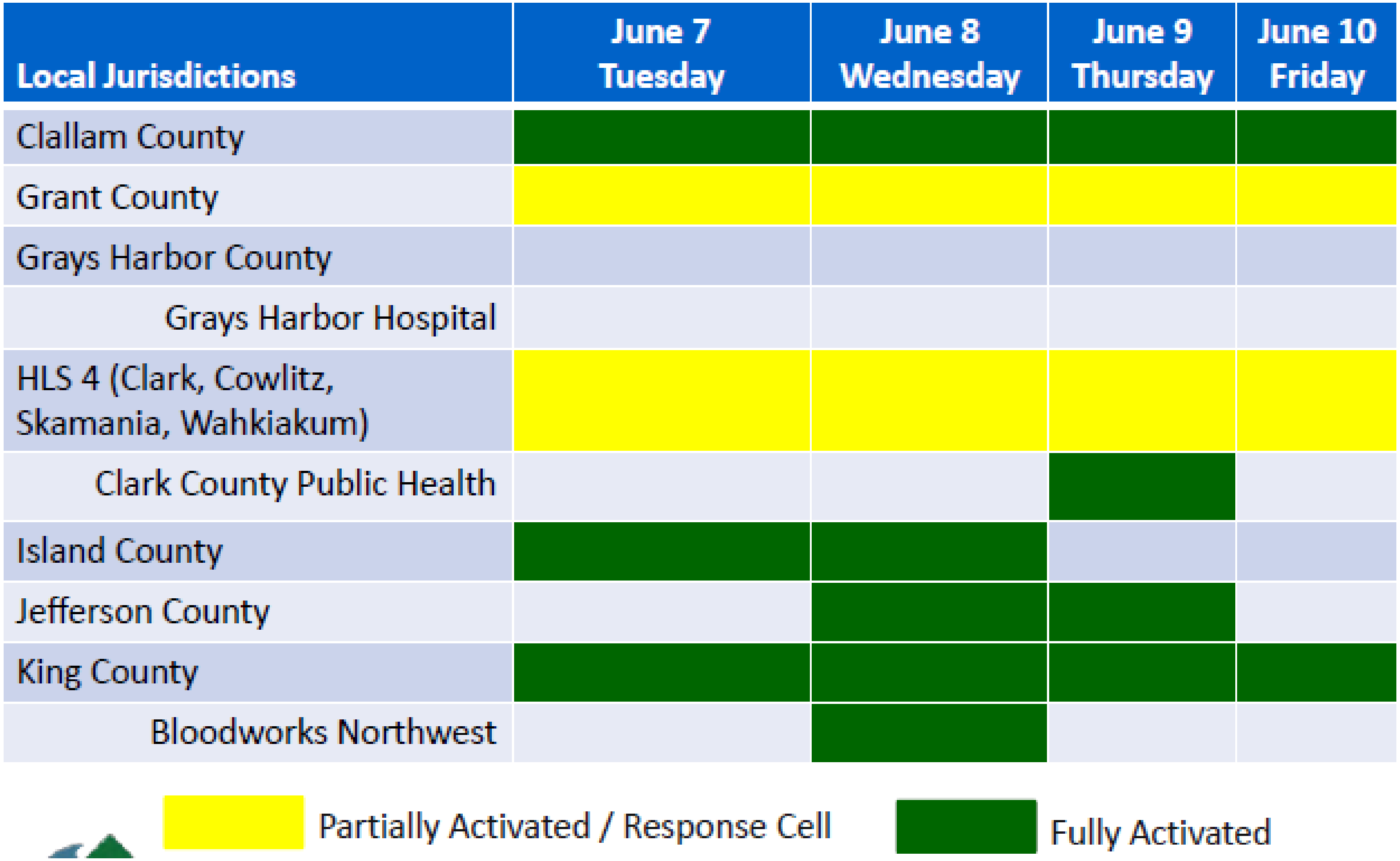


JUNE 7 JUNE 8 JUNE 9 JUNE 10

Option 1: EOC AT FULL ACTIVATION RESPONSE CELL

Option 2: RESPONSE CELL EOC AT FULL ACTIVATION RESPONSE CELL

Level of Play



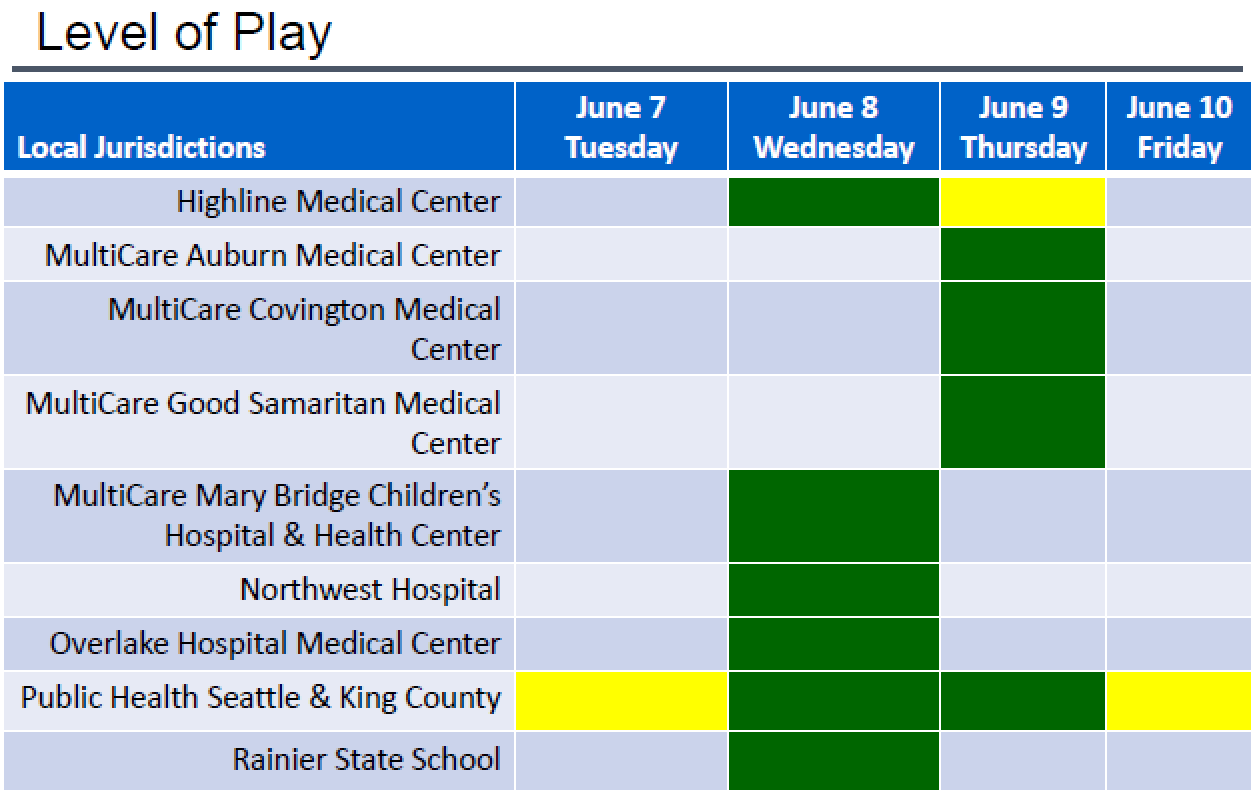
Local Jurisdictions	June 7 Tuesday	June 8 Wednesday	June 9 Thursday	June 10 Friday
Clallam County	🟩	🟩	🟩	🟩
Grant County	🟨	🟨	🟨	🟨
Grays Harbor County				
Grays Harbor Hospital				
HLS 4 (Clark, Cowlitz, Skamania, Wahkiakum)	🟨	🟨	🟨	🟨
Clark County Public Health			🟩	
Island County	🟩	🟩		
Jefferson County		🟩	🟩	
King County	🟩	🟩	🟩	🟩
Bloodworks Northwest		🟩		

🟨 Partially Activated / Response Cell

🟩 Fully Activated

Level of Play

Local Jurisdictions	June 7 Tuesday	June 8 Wednesday	June 9 Thursday	June 10 Friday
City of Auburn	🟨	🟩	🟩	
City of Bellevue		🟩		
City of Issaquah	🟨	🟩		
City of Kirkland	🟩	🟩	🟩	🟩
City or Mercer Island	🟨			🟩
City of Redmond	🟩		🟩	
City of Renton	🟩	🟩		
City of Sammamish	🟨	🟨		
City of Seattle		🟩	🟩	
City of Shoreline	🟨	🟩		
City of Tukwila	🟩	🟩		
Evergreen Health Medical Center		🟩	🟨	

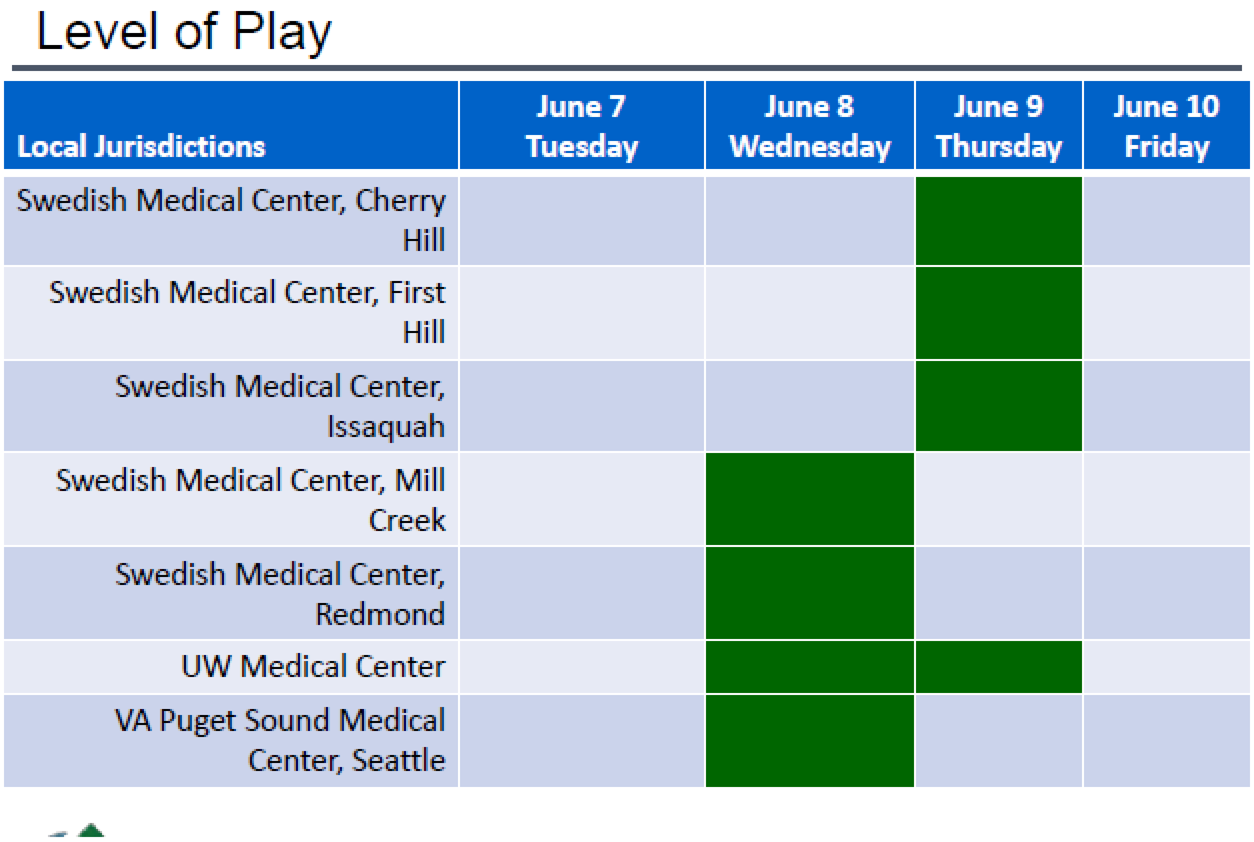


Level of Play

Local Jurisdictions	June 7 Tuesday	June 8 Wednesday	June 9 Thursday	June 10 Friday
Highline Medical Center		🟩	🟨	
MultiCare Auburn Medical Center			🟩	
MultiCare Covington Medical Center			🟩	
MultiCare Good Samaritan Medical Center			🟩	
MultiCare Mary Bridge Children's Hospital & Health Center		🟩		
Northwest Hospital		🟩		
Overlake Hospital Medical Center		🟩		
Public Health Seattle & King County	🟨	🟩	🟩	🟨
Rainier State School		🟩		

Level of Play

Local Jurisdictions	**June 7 Tuesday**	**June 8 Wednesday**	**June 9 Thursday**	**June 10 Friday**
Sammamish Citizen Corps Council	🟨			
Sammamish Plateau Water & Sewer District		🟩		
Seattle's Children Hospital		🟩	🟩	
St. Claire Hospital		🟩		
St. Elizabeth Hospital		🟩		
St. Francis Hospital		🟩		
St. Joseph Medical Center		🟩		
Swedish Medical Center, Ballard			🟩	



Level of Play

Local Jurisdictions	June 7 Tuesday	June 8 Wednesday	June 9 Thursday	June 10 Friday
Swedish Medical Center, Cherry Hill			🟩	
Swedish Medical Center, First Hill			🟩	
Swedish Medical Center, Issaquah			🟩	
Swedish Medical Center, Mill Creek		🟩		
Swedish Medical Center, Redmond		🟩		
UW Medical Center		🟩	🟩	
VA Puget Sound Medical Center, Seattle		🟩		

Level of Play

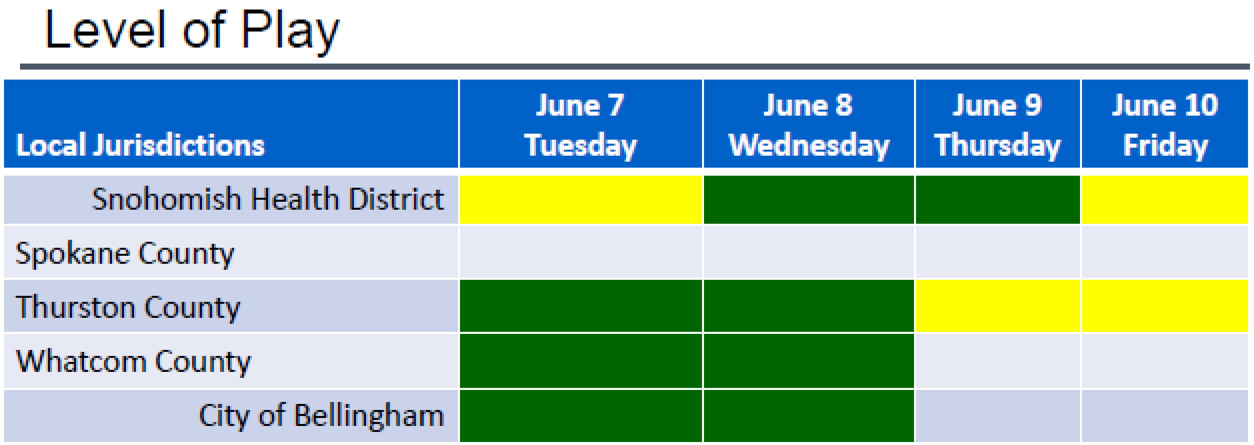
Local Jurisdictions	June 7 Tuesday	June 8 Wednesday	June 9 Thursday	June 10 Friday
Valley Medical Center		🟩	🟩	
Vashon Island	🟩	🟩	🟩	🟩
Virginia Mason Medical Center		🟩	🟩	
Kitsap County	🟩	🟩	🟨	🟨
City of Bainbridge		🟨		
City of Poulsbo	🟨			
Kitsap Transit	🟩	🟩		
Kitsap County Public Health District		🟩		
Lewis County	🟩	🟩	🟨	🟨
Mason County	🟩	🟨	🟨	🟩

Level of Play

Local Jurisdictions	**June 7 Tuesday**	**June 8 Wednesday**	**June 9 Thursday**	**June 10 Friday**
Northwest Healthcare Response Network	🟨	🟩	🟩	🟨
Pacific County	🟨	🟩	🟩	🟨
Ocean Beach Hospital	🟩			
Willapa Harbor Hospital	🟨	🟩	🟩	🟨
Pierce County	🟨	🟩	🟩	🟨
City of Tacoma	🟩	🟩	🟨	🟨
Multicare Allenmore Hospital		🟨		
Tacoma General Hospital		🟩	🟩	
Port of Tacoma	🟩	🟩		
Tacoma Pierce County Health Department		🟩	🟩	

Level of Play

Local Jurisdictions	June 7 Tuesday	June 8 Wednesday	June 9 Thursday	June 10 Friday
VA Puget Sound Medical Center – American Lake		🟩		
Western State Hospital		🟩	🟩	
San Juan County	🟨	🟨	🟨	🟨
Snohomish County	🟨	🟩	🟩	🟨
Cascade Valley Hospital		🟩		
Community Transit	🟩	🟩		
Evergreen Health Monroe		🟩		
Port of Everett				
Providence Regional Medical Center - Everett		🟩		
Swedish Edmonds Hospital		🟩		



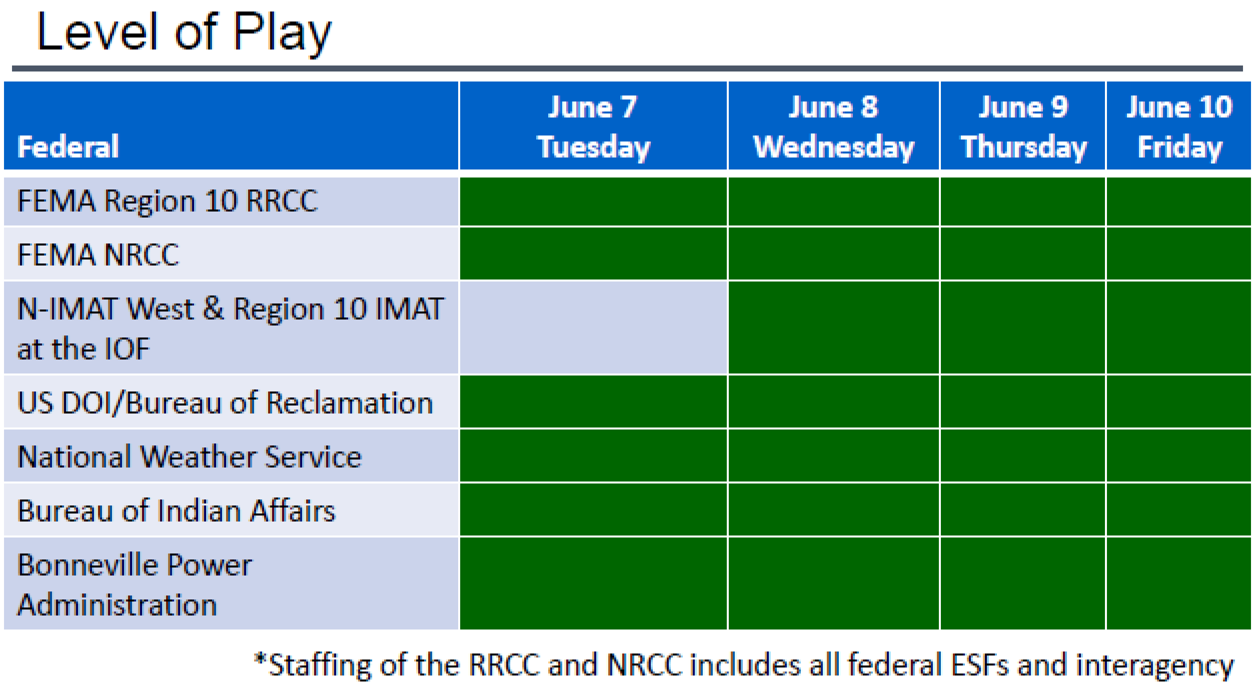
Level of Play

Local Jurisdictions	June 7 Tuesday	June 8 Wednesday	June 9 Thursday	June 10 Friday
Snohomish Health District	🟨	🟩	🟩	🟨
Spokane County				
Thurston County	🟩	🟩	🟨	🟨
Whatcom County	🟩	🟩		
City of Bellingham	🟩	🟩		

Level of Play

State Department/Agency	June 7 Tuesday	June 8 Wednesday	June 9 Thursday	June 10 Friday
WA EMD (State EOC)*	🟩	🟩	🟩	🟩
WA National Guard / Joint Operations Center	🟩	🟩	🟩	🟩
WA State Guard	🟩	🟩	🟩	🟩
University of Washington		🟨	🟨	
Washington State University				

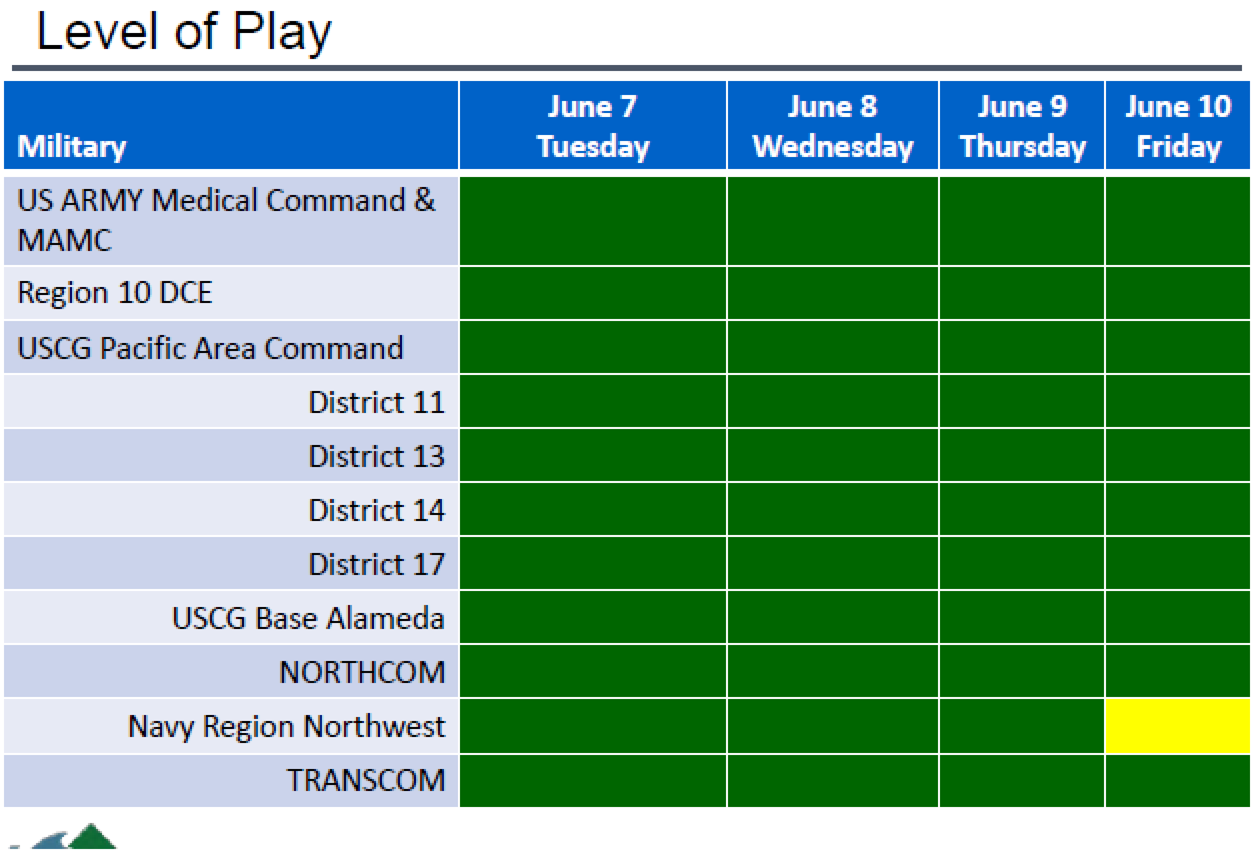
*Staffing of the State EOC includes all state agency ESFs



Level of Play

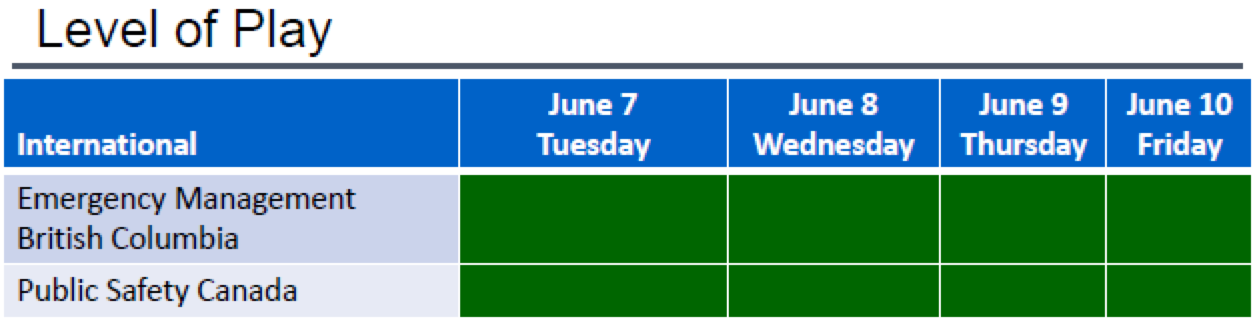
Federal	June 7 Tuesday	June 8 Wednesday	June 9 Thursday	June 10 Friday
FEMA Region 10 RRCC	🟩	🟩	🟩	🟩
FEMA NRCC	🟩	🟩	🟩	🟩
N-IMAT West & Region 10 IMAT at the IOF		🟩	🟩	🟩
US DOI/Bureau of Reclamation	🟩	🟩	🟩	🟩
National Weather Service	🟩	🟩	🟩	🟩
Bureau of Indian Affairs	🟩	🟩	🟩	🟩
Bonneville Power Administration	🟩	🟩	🟩	🟩

*Staffing of the RRCC and NRCC includes all federal ESFs and interagency



Level of Play

Military	June 7 Tuesday	June 8 Wednesday	June 9 Thursday	June 10 Friday
US ARMY Medical Command & MAMC	🟩	🟩	🟩	🟩
Region 10 DCE	🟩	🟩	🟩	🟩
USCG Pacific Area Command	🟩	🟩	🟩	🟩
District 11	🟩	🟩	🟩	🟩
District 13	🟩	🟩	🟩	🟩
District 14	🟩	🟩	🟩	🟩
District 17	🟩	🟩	🟩	🟩
USCG Base Alameda	🟩	🟩	🟩	🟩
NORTHCOM	🟩	🟩	🟩	🟩
Navy Region Northwest	🟩	🟩	🟩	🟨
TRANSCOM	🟩	🟩	🟩	🟩



Level of Play

International	June 7 Tuesday	June 8 Wednesday	June 9 Thursday	June 10 Friday
Emergency Management British Columbia	🟩	🟩	🟩	🟩
Public Safety Canada	🟩	🟩	🟩	🟩

EXTENT OF PLAY – COUNTIES
(as of 3/31/2016)

			Tues 6-7	Wed 6-8	Thurs 6-9	Fri 6-10
WA State EOC			FA	FA	FA	FA
Clallam County			FA	FA	FA	FA
Clark County			NA	NA	NA	NA
Cowlitz County			NA	NA	NA	NA
Grant County			NA	NA	NA	NA
Grays Harbor Co.			NA	NA	NA	NA
Island County			NA	NA	NA	NA
Jefferson County				FA	FA	
King County			FA	FA	FA	FA
Kitsap County			NA	NA	NA	NA
Lewis County			NA	NA	NA	NA
Mason County			NA	NA	NA	NA
Pacific County			NA	NA	NA	NA
Pierce County			FA	FA		
San Juan County			NA	NA	NA	NA
Skagit County			NA	NA	NA	NA
Skamania Co.			NA	NA	NA	NA
Snohomish Co,				FA	FA	
Spokane County				FA	FA	
Thurston County			FA	FA	FA	FA
Wahkiakum Co.			NA	NA	NA	NA
Whatcom County				FA	FA	

EXTENT OF PLAY – CITIES
(as of 3/31/2016)

	Tues 6-7	Wed 6-8	Thurs 6-9	Fri 6-10
Auburn	PA	FA	FA	
Bellevue		FA		
Issaquah	PA	FA		
Mercer Island	PA			
Renton	FA	FA		
Seattle	FA	FA	FA	FA
Tukwila	FA	FA		
Vashon Island	FA	FA	FA	FA

NA = not activated
FA = Full activation
PA = Partial activation

ARES/RACES/ACS Training

in support of CR-16

Training Events for CR-16

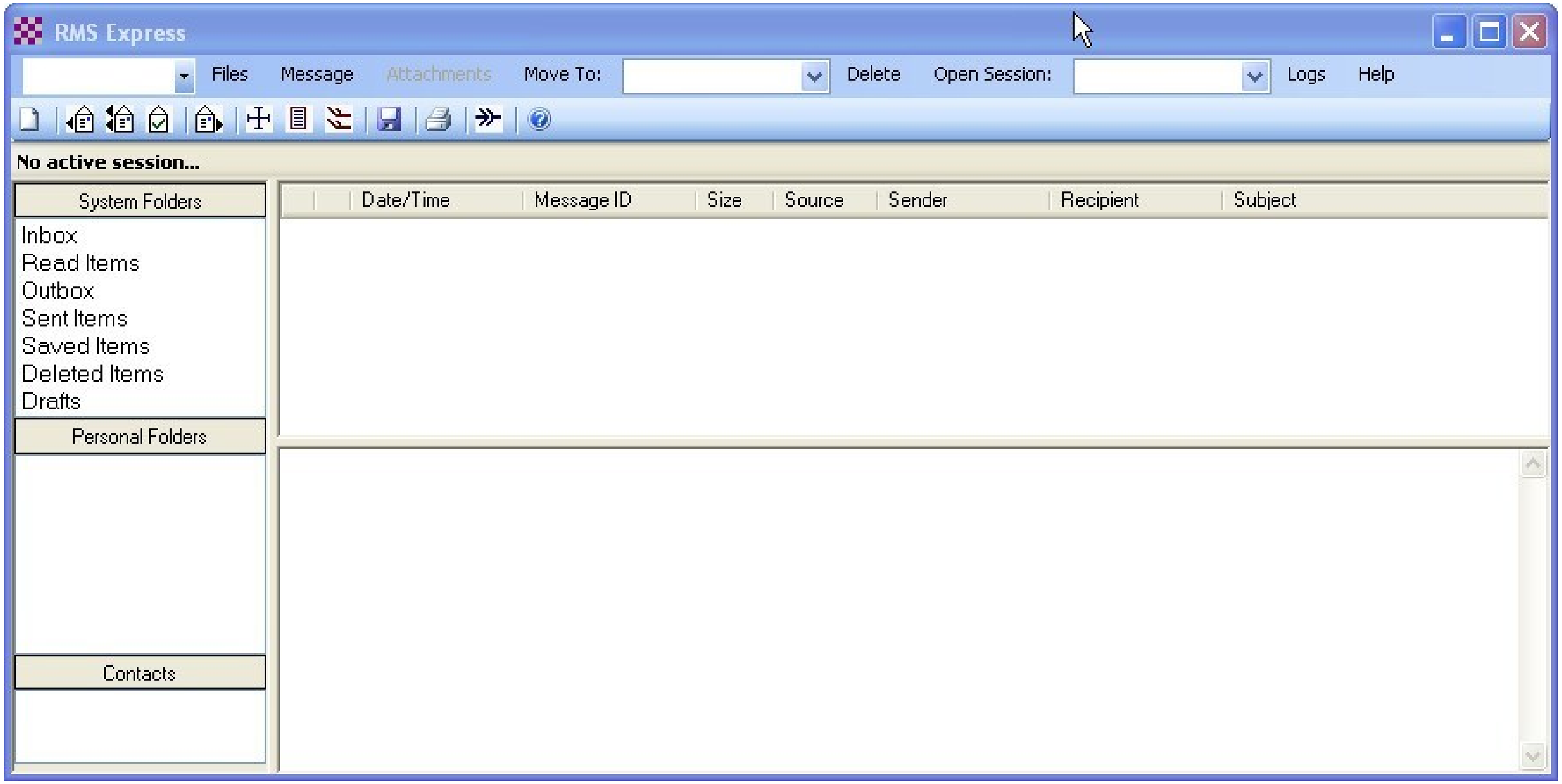
- August 29, 2015 - 5th Saturday
- October 3, 2015 – Fall SET
- October 31, 2015 – 5th Saturday
- January 30, 2016 – 5th Saturday
- March 12, 2016 – Spring SET

CR-16 Training Events Lesions Learned

- Intra-State HF Communications on 40M and 80 M are problematic during the day (and will be especially so during CR-16 in early June 2016).
- 20 M HF with NCS external to Washington State (Minnesota) provided excellent communications during the March 12 SET.
- Western Washington Repeater coverage is excellent (but will be subject to damage in varying degrees by the earthquake).
- VHF/UHF simplex was very effective in local coverage for both voice and data.
- Overwhelming success in adapting to and utilizing the WinLink Radio-Email system on both HF and VHF. The Winlink system is especially well suited to support the asynchronous communications outages which are planned for CR-16

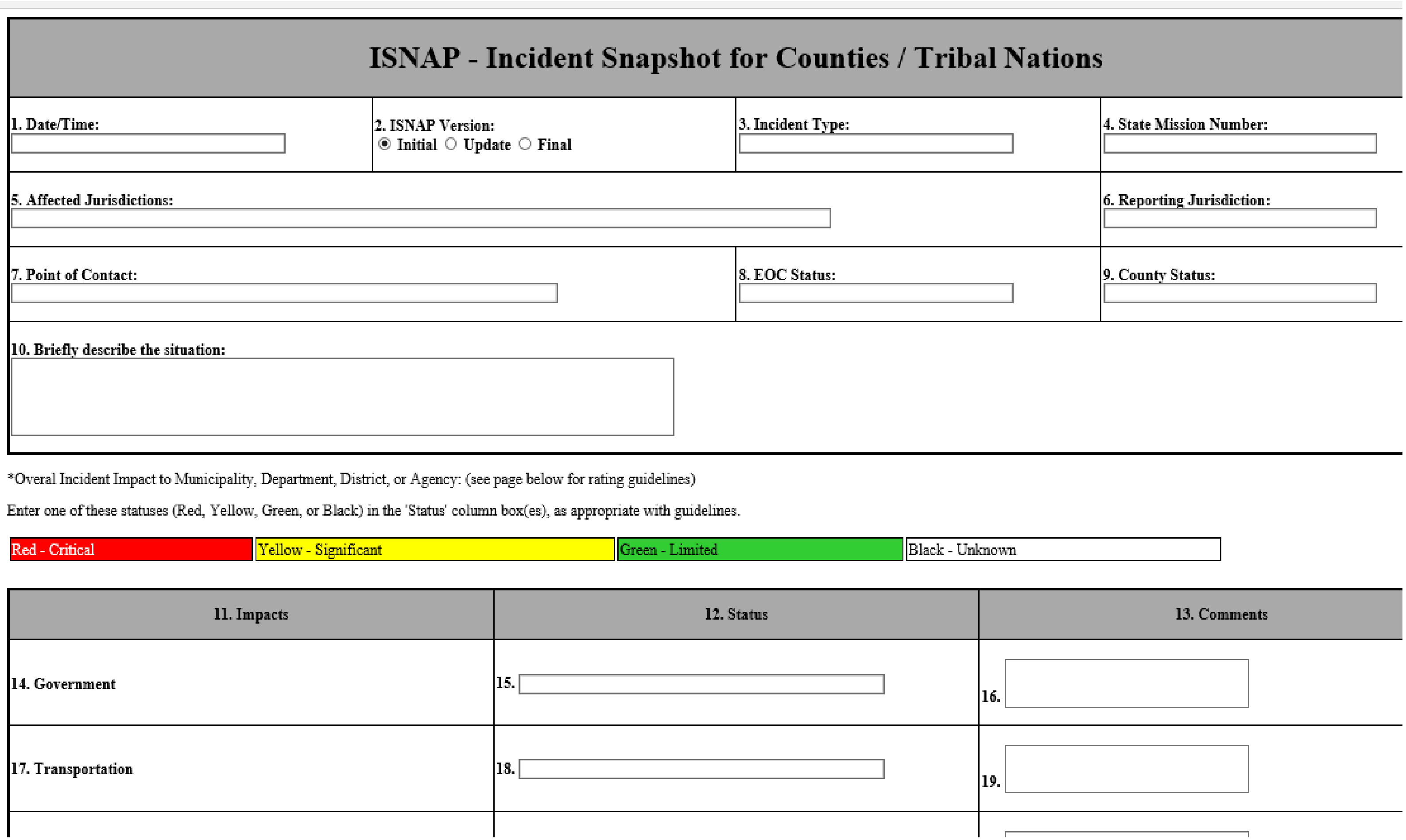
Winlink is expected to carry the bulk of message traffic during the CR-16 Catastrophic Earthquake Drill

RMS Express



No active session...

RMS Express ISNAP Form



ISNAP - Incident Snapshot for Counties / Tribal Nations

1. Date/Time:

2. ISNAP Version: ● Initial ○ Update ○ Final

3. Incident Type:

4. State Mission Number:

5. Affected Jurisdictions:

6. Reporting Jurisdiction:

7. Point of Contact:

8. EOC Status:

9. County Status:

10. Briefly describe the situation:

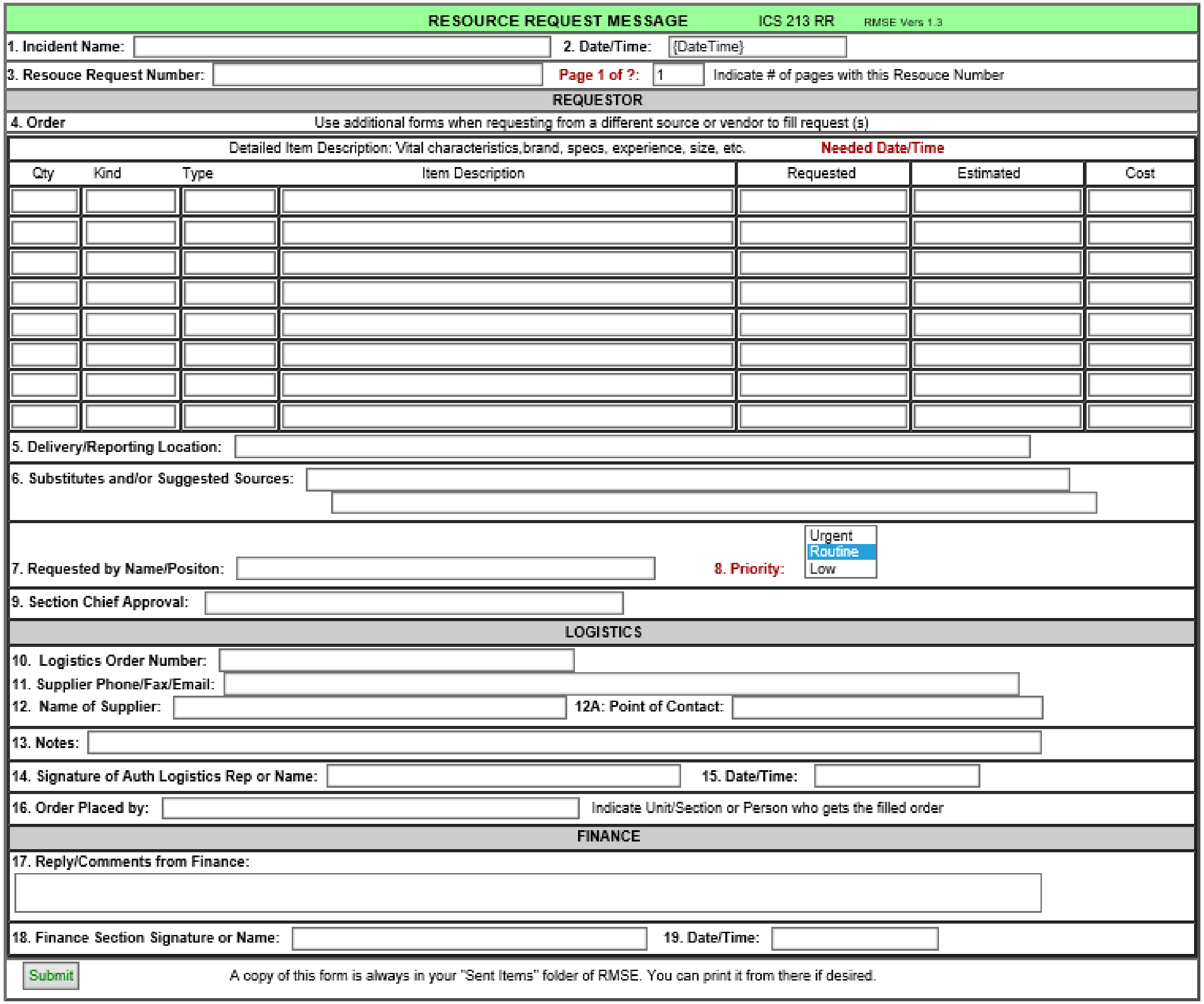
*Overal Incident Impact to Municipality, Department, District, or Agency: (see page below for rating guidelines)

Enter one of these statuses (Red, Yellow, Green, or Black) in the 'Status' column box(es), as appropriate with guidelines.

Red - Critical	Yellow - Significant	Green - Limited	Black - Unknown

11. Impacts	12. Status	13. Comments
14. Government	15.	16.
17. Transportation	18.	19.

RMS Express ICS-213 Resource Request



RESOURCE REQUEST MESSAGE ICS 213 RR RMSE Vers 1.3

1. Incident Name: 2. Date/Time: {DateTime}

3. Resouce Request Number: Page 1 of ?: 1 Indicate # of pages with this Resouce Number

REQUESTOR

4. Order Use additional forms when requesting from a different source or vendor to fill request (s)

Detailed Item Description: Vital characteristics,brand, specs, experience, size, etc.				Needed Date/Time		
Qty	Kind	Type	Item Description	Requested	Estimated	Cost

5. Delivery/Reporting Location:

6. Substitutes and/or Suggested Sources:

7. Requested by Name/Positon:

8. Priority: Urgent / Routine / Low

9. Section Chief Approval:

LOGISTICS

10. Logistics Order Number:

11. Supplier Phone/Fax/Email:

12. Name of Supplier: 12A: Point of Contact:

13. Notes:

14. Signature of Auth Logistics Rep or Name: 15. Date/Time:

16. Order Placed by: Indicate Unit/Section or Person who gets the filled order

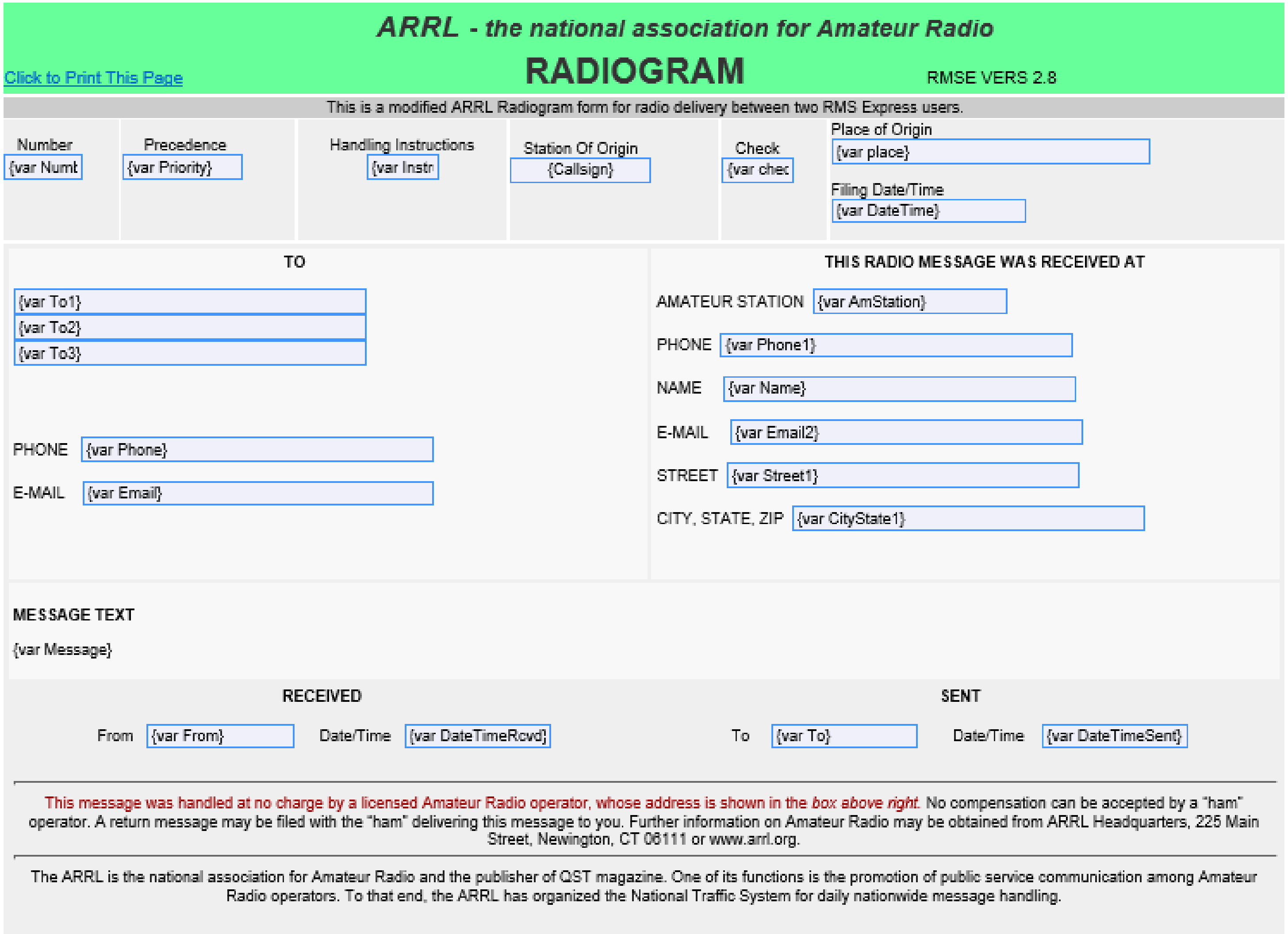
FINANCE

17. Reply/Comments from Finance:

18. Finance Section Signature or Name: 19. Date/Time:

Submit A copy of this form is always in your "Sent Items" folder of RMSE. You can print it from there if desired.

RMS Express – ARRL Radiogram



ARRL - the national association for Amateur Radio

Click to Print This Page

RADIOGRAM

RMSE VERS 2.8

This is a modified ARRL Radiogram form for radio delivery between two RMS Express users.

Number	Precedence	Handling Instructions	Station Of Origin	Check	Place of Origin
{var Numt	{var Priority}	{var Instr	{Callsign}	{var chec	{var place}
					Filing Date/Time {var DateTime}

TO

{var To1}
{var To2}
{var To3}

PHONE {var Phone}
E-MAIL {var Email}

THIS RADIO MESSAGE WAS RECEIVED AT

AMATEUR STATION {var AmStation}
PHONE {var Phone1}
NAME {var Name}
E-MAIL {var Email2}
STREET {var Street1}
CITY, STATE, ZIP {var CityState1}

MESSAGE TEXT

{var Message}

RECEIVED

From {var From} Date/Time {var DateTimeRcvd}

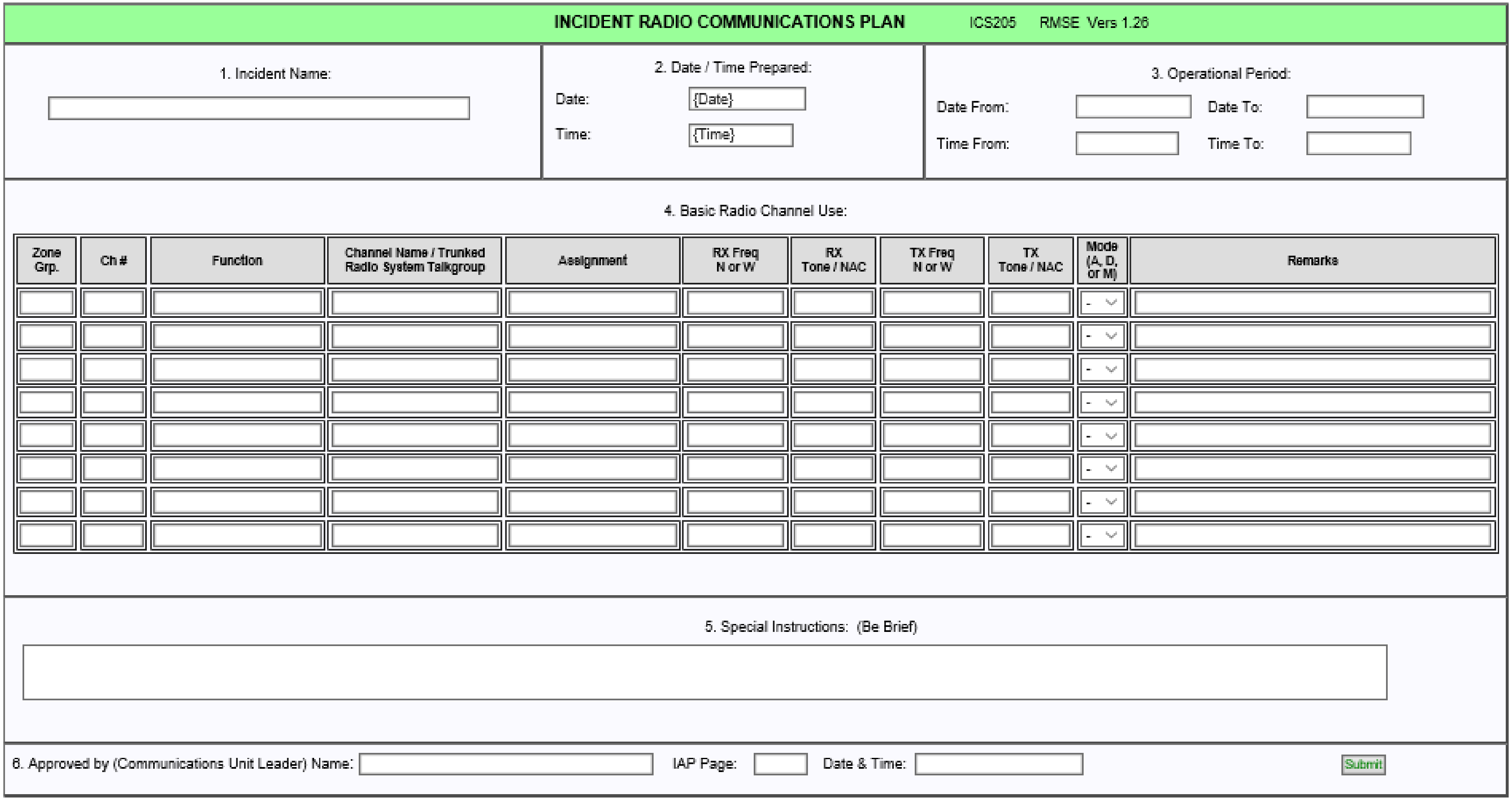
SENT

To {var To} Date/Time {var DateTimeSent}

This message was handled at no charge by a licensed Amateur Radio operator, whose address is shown in the *box above right*. No compensation can be accepted by a "ham" operator. A return message may be filed with the "ham" delivering this message to you. Further information on Amateur Radio may be obtained from ARRL Headquarters, 225 Main Street, Newington, CT 06111 or www.arrl.org.

The ARRL is the national association for Amateur Radio and the publisher of QST magazine. One of its functions is the promotion of public service communication among Amateur Radio operators. To that end, the ARRL has organized the National Traffic System for daily nationwide message handling.

RMS Express ICS-205



INCIDENT RADIO COMMUNICATIONS PLAN ICS205 RMSE Vers 1.26

1. Incident Name:

2. Date / Time Prepared:
Date: {Date}
Time: {Time}

3. Operational Period:
Date From: Date To:
Time From: Time To:

4. Basic Radio Channel Use:

Zone Grp.	Ch #	Function	Channel Name / Trunked Radio System Talkgroup	Assignment	RX Freq N or W	RX Tone / NAC	TX Freq N or W	TX Tone / NAC	Mode (A, D, or M)	Remarks
									-	
									-	
									-	
									-	
									-	
									-	
									-	
									-	

5. Special Instructions: (Be Brief)

6. Approved by (Communications Unit Leader) Name: IAP Page: Date & Time:

Winlink Data Contest Results

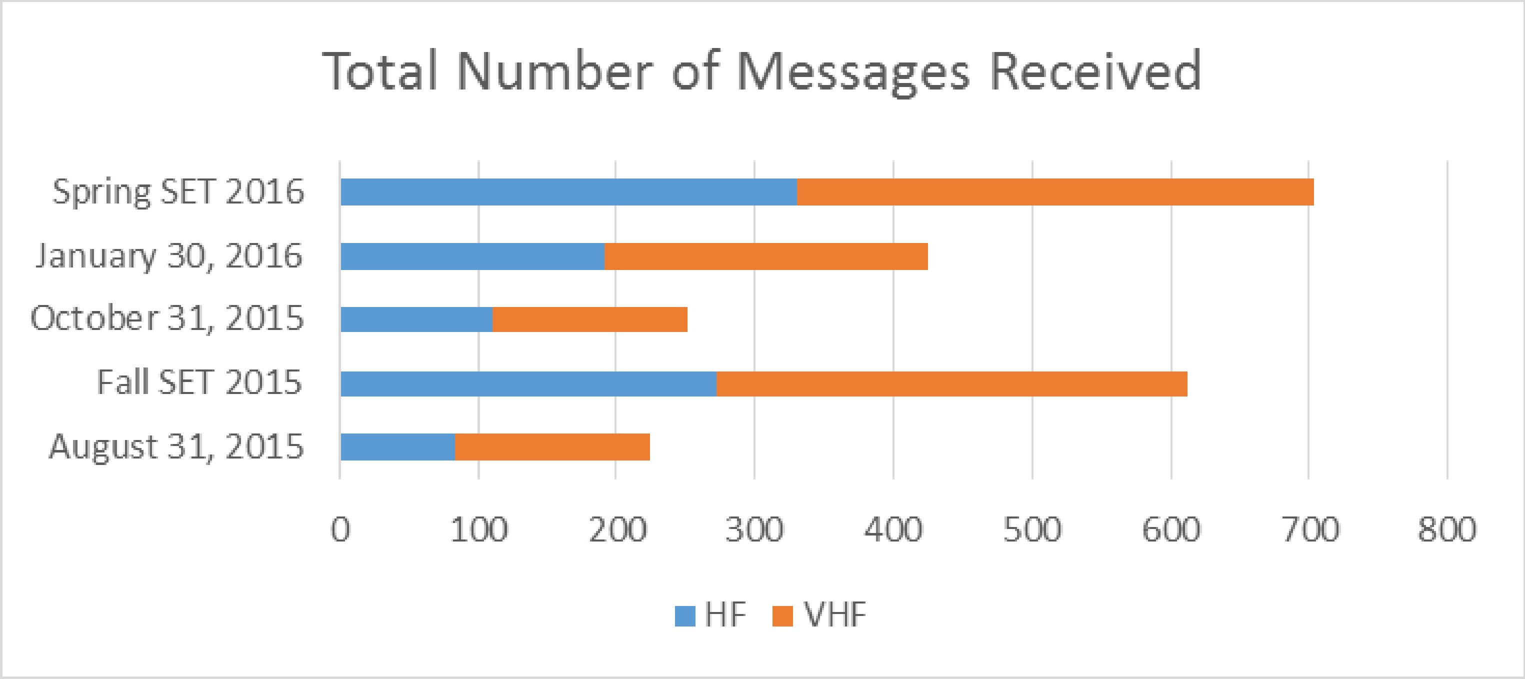
Number of EOC's/jurisdictions	54
Aggregated Total No. of Points	10231
Range of Points/ jurisdiction	2-1737
Aggregated Total No. Messages	1342
Range of Messages/ jurisdiction	1-221

DATA CONTEST POINTS – THE TOP 10

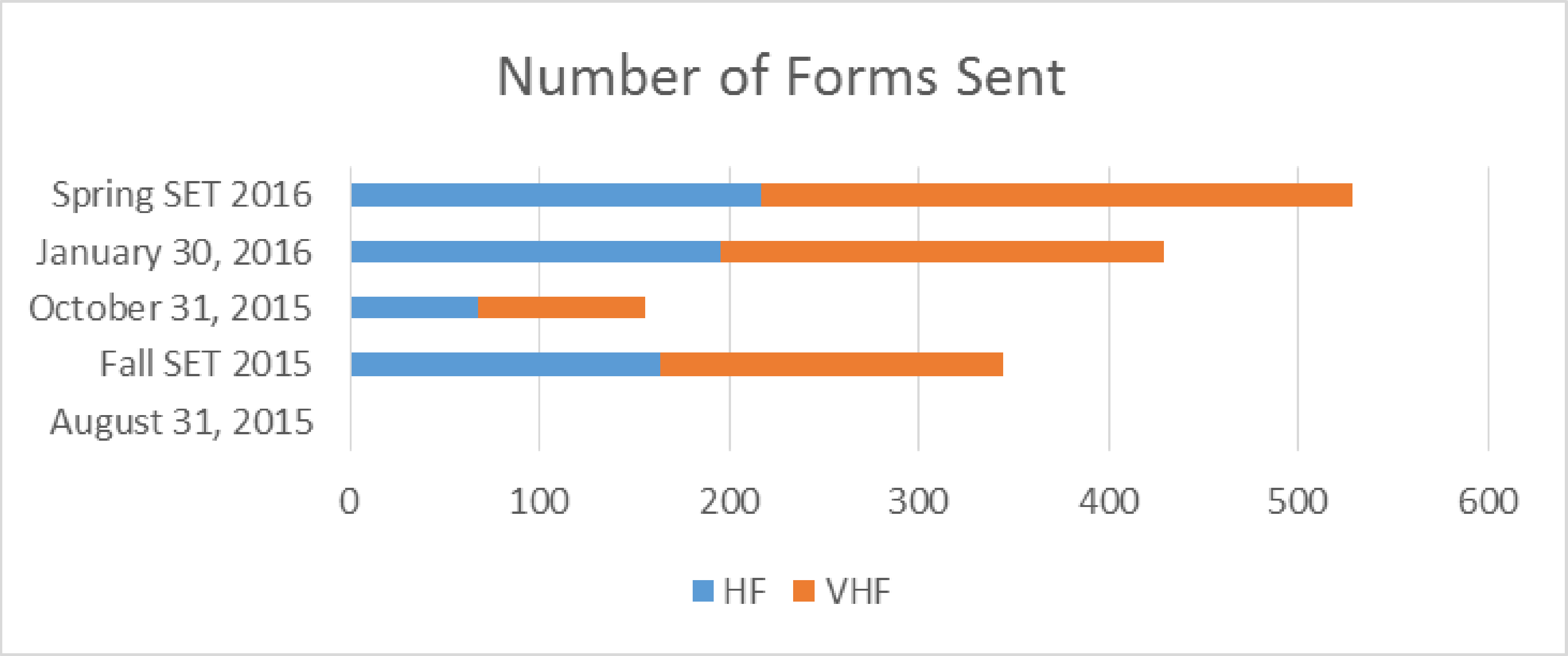
Agency	Aug HF	Aug VHF	SET HF	SET VHF	Oct HF	Oct VHF	Jan HF	Jan VHF	Spring SET HF	Spring SET VHF	Totals
Grays Harbor County EOC	120	12	265	86	300	35	380	69	330	140	**1737**
Whatcom ECC		30	230	104	400	57	110		390	20	**1341**
Pierce County EOC	20	18	490	115	80		190	30	180	182	**1305**
Snohomish County ECC	40	36	315	278	110	146	60	109		191	**1285**
Vashon Island EOC	40	18					120	78	755	134	**1145**
Seattle EOC	30	4	325	190	120	16	300	130		5	**1120**
Skagit County EOC			35	10	20		740	12	825	82	**1024**
Island County DEM	540		55	18					50	35	**698**

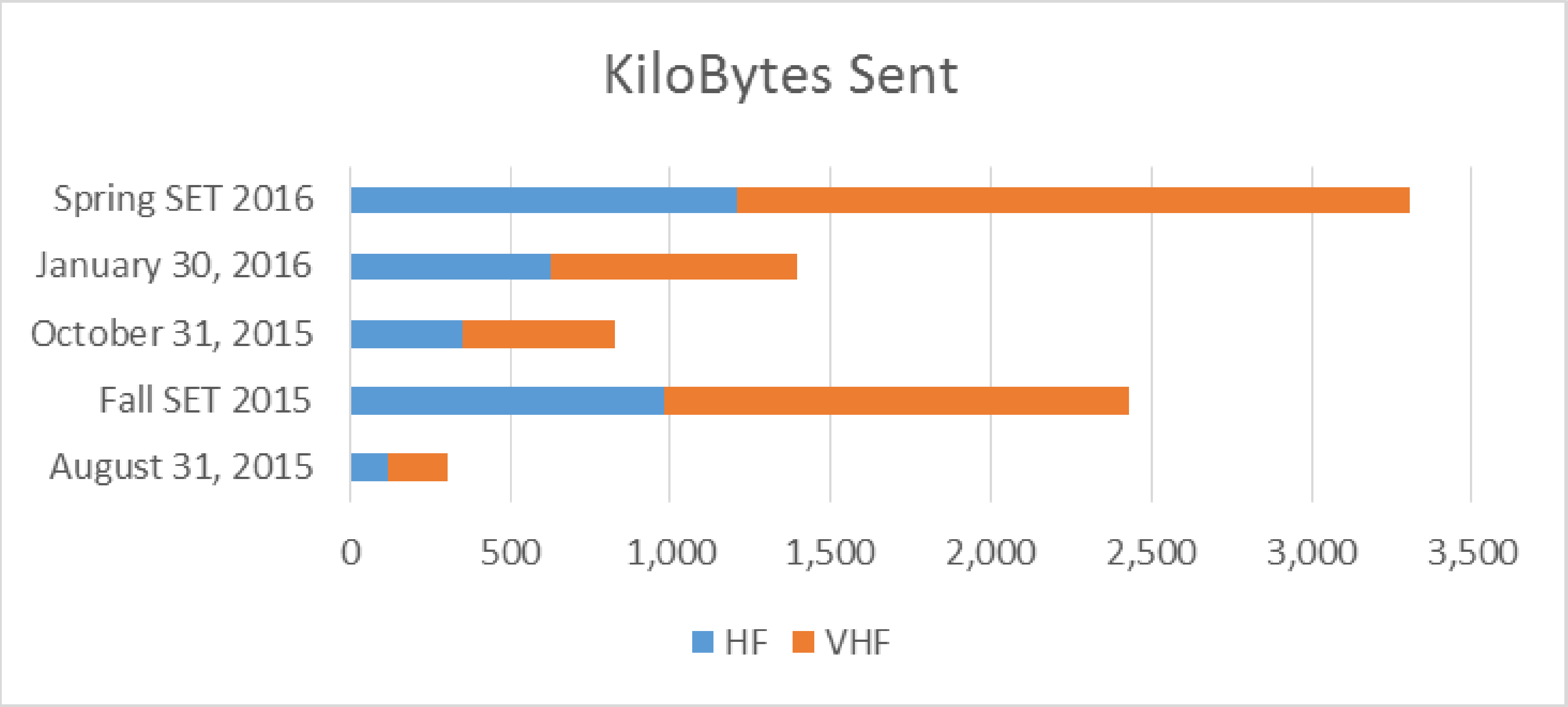
DATA CONTEST - # of MESSAGES – THE TOP 10

Agency	Aug HF	Aug VHF	SET HF	SET VHF	Oct HF	Oct VHF	Jan HF	Jan VHF	Spring SET HF	Spring SET VHF	Totals
Snohomish County ECC	4	18	38	69	6	31	3	23		29	**221**
Grays Harbor County EOC	12	6	29	34	19	10	24	24	31	17	**206**
Pierce County EOC	2	9	65	41	5		14	8	12	26	**182**
Vashon EOC	4	9					9	21	87	29	**159**
Seattle EOC	3	2	44	41	7	5	18	29		1	**150**
Whatcom ECC		6	26	25	27	15	15		33	3	**150**
Skagit EOC			4	5	1		3	3	117	6	**139**
PSE EOC								43		94	**137**



Total Number of Messages Received


Number of Forms Sent
Spring SET 2016
January 30, 2016
October 31, 2015
Fall SET 2015
August 31, 2015
0
100
200
300
400
500
600
HF
VHF

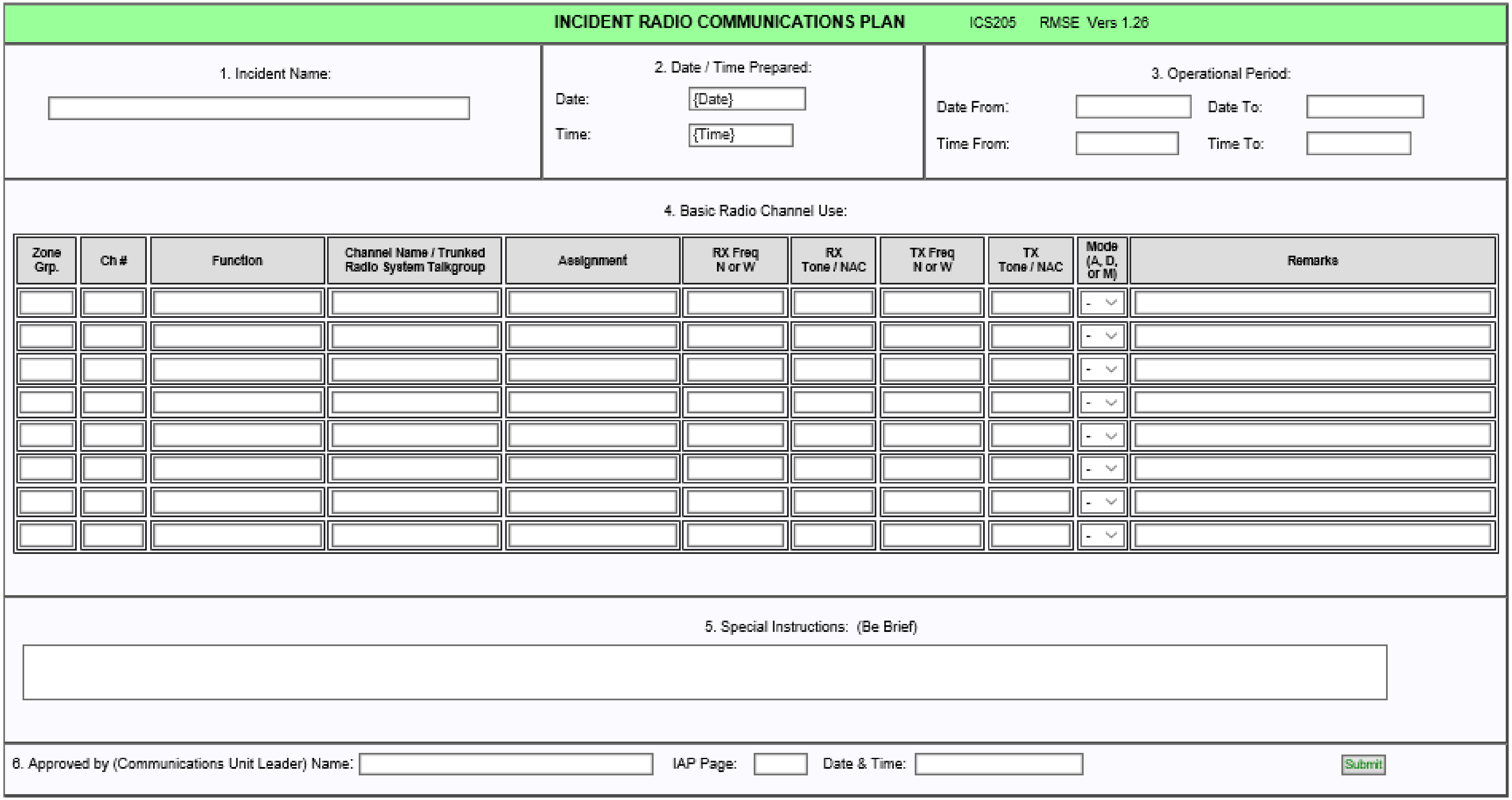

KiloBytes Sent
Spring SET 2016
January 30, 2016
October 31, 2015
Fall SET 2015
August 31, 2015
0
500
1,000
1,500
2,000
2,500
3,000
3,500
HF
VHF

CR-16 RADIO EMAIL ADDRESSES

- W7EMD@winlink.org (General messaging to the Washington State EOC @ Camp Murray).
- ISNAP@mil.wa.gov (for ISNAP Forms)
- RFA@mil.wa.gov (for logistical messages)

Please note: We will NO LONGER be using the Gmail addresses that were used for the training events.

Please develop your ICS-205 for CR-16 in advance.



INCIDENT RADIO COMMUNICATIONS PLAN ICS205 RMSE Vers 1.26

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Zone Grp.	Ch #	Function	Channel Name / Trunked Radio System Talkgroup	Assignment	RX Freq N or W	RX Tone / NAC	TX Freq N or W	TX Tone / NAC	Mode (A, D, or M)	Remarks
									-	
									-	
									-	
									-	
									-	
									-	
									-	
									-	

5. Special Instructions: (Be Brief)

6. Approved by (Communications Unit Leader) Name: IAP Page: Date & Time:

Submit

Suggested CR-16 Frequencies

(for your ICS-205s)

- Winlink – Select from list @ https://www.winlink.org/RMSChannels
- VHF/UHF Repeaters – Locally determined
- VHF/UHF Simplex – Locally determined
- HF Voice
  - 3.985 Mhz
  - 7.245 Mhz
  - 14.285 Mhz

LINKED EXERCISES

Cascadia Rising 2016 Linked Exercise

UNITED STATES NORTHERN COMMAND

Ardent Sentry

Vigilant Guard

UNITED STATES TRANSPORTATION COMMAND

Turbo Challenge

Joint Logistics Over The Shore

Western Washington Section ARES
Washington State RACES

“WHEN ALL ELSE FAILS”

Amateur Radio COMMEX
June 7, 2016
10:00 to 14:00 hrs.

Western Washington Section ARES
Washington State RACES
COMMEX

"WHEN ALL ELSE FAILS"

BEACAUSE ….

- **Communication outages during the CR-16 drill have been determined by FEMA to be a series of locally determined short duration asynchronous outages sometime during the four day period of the drill (each jurisdiction selects their own time independent of other jurisdictions) with no uniform statewide or regional communications outages planned.**
- **Many jurisdictions have decided not to participate in CR-16. To enable the entire Washington State ARS to participate and also to test strategic as well as tactical communications an ARS COMMEX is being planned for the first day of CR-16.**

Western Washington Section ARES
Washington State RACES
COMMEX

“WHEN ALL ELSE FAILS”

- **The Playbook for the COMMEX is being developed.**
- **Input from ARES, RACES, and ACS leaders will be solicited at another session of the Communications Academy.**
- **The COMMEX will most likely involve earthquake and situational damage reporting with the use of the ISNAP form and the WinLink Radio-Email system.**
- **During the COMMEX an HF Voice Net will be established with NCS stations in the mid-west and Alaska.**

CASCADIA
RISING

Cascadia Subduction Zone (CSZ)
Catastrophic Earthquake and Tsunami Functional Exercise 2016

DISCUSSION and Q&A